SOFTWARE DEVELOPMENT

ABOUT THIS DEGREE PROGRAM

TECH CORE

A FOUNDATION IN TECHNOLOGY

This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you'll need for today's Internet of Things (IoT) economy. You'll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE

With this program, you'll not only be armed with the Tech Core experience, but you'll also be exposed to a variety of concepts that can help guide your specialization choice in Big Data and Analytics, Software Design and Programming, and Web and Mobile Application Development.

IS THIS PROGRAM FOR YOU?

Interested in a career in software development but not sure where to focus? With this program, you'll be become familiarized with methods for improving software design and application product development to help guide your degree specialization choice.

CAREER OPPORTUNITIES

Graduates of DeVry's Software Development degree program may consider, but are not limited to, the following careers:

- Software Application Developer
- Software Systems Developer

WHAT YOU'LL LEARN

ESSENTIALS

- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

TECH CORE

- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the IoT ecosystem
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Install and configure operating systems using command line interface (CLI)

PROGRAM

- Design web distributed systems
- Develop applications
- Analyze and design software systems
- Product life cycle management

QUICK FACTS

120
CREDIT HOURS
minimum credit hours required for graduation

2 + 8
YEARS MONTHS
minimum length to graduation[1]

UNDECIDED PATH

THE SMART WAY TO BE UNDECIDED

With our undecided model, you'll be exposed to three different specializations and be better armed to choose your path.[2]

IoT PROJECTS

WORK WITH IOT TECHNOLOGIES & SYSTEMS

Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and systems.

DIVERSITY, EQUITY & INCLUSION

BE AN ACTIVE PART OF AN INCLUSIVE FUTURE

Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These options highlight relevant topics to help empower you to promote an inclusive workplace.

DeVry University

Software Development

ESSENTIALS

51 CREDIT HOURS

COMMUNICATION SKILLS

ENGL112   Composition
ENGL135   Advanced Composition
ENGL216   Technical Writing

Select one
SPCH275   Public Speaking
SPCH276   Intercultural Communication ⬡

HUMANITIES

LAS432   Technology, Society, and Culture ⬡

Select one
ETHC232   Ethical and Legal Issues in the Professions
ETHC334   Diversity, Equity and Inclusion in the Workplace ⬡

SOCIAL SCIENCES

ECON312   Principles of Economics
SOCS185   Culture and Society ⬡

Select one
SOCS325   Environmental Sociology
SOCS350   Cultural Diversity in the Professions ⬡

MATHEMATICS AND NATURAL SCIENCES

MATH114   Algebra for College Students
MATH221   Statistics for Decision-Making
MATH234   Discrete Math in Information Technology
PHYS204   Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405   Career Development
COLL148   Critical Thinking and Problem-Solving

⬡ This icon indicates Diversity, Equity & Inclusion Courses

TECH CORE

21 CREDIT HOURS

TECH CORE

CEIS101   Introduction to Technology and Information Systems
CEIS106   Introduction to Operating Systems
CEIS110   Introduction to Programming
CEIS114   Introduction to Digital Devices
NETW191   Fundamentals of Information Technology and Networking
NETW211   Fundamentals of Cloud Computing
SEC285   Fundamentals of Information Security

PROGRAM

37 CREDIT HOURS

INFORMATION SYSTEMS AND PROGRAMMING

CEIS150   Programming with Objects
CEIS209   Intermediate Programming
CEIS236   Database Systems and Programming Fundamentals
CEIS295   Data Structures and Algorithms
CIS355A   Business Application Programming with Lab

ANALYSIS AND DESIGN

BIAM110   Introduction to Business Analytics
CEIS310   Process Improvement with Machine Learning
CEIS312   Introduction to Artificial Intelligence

CAREER PREPARATION

CEIS299   Careers and Technology
CEIS499   Preparation for the Profession
MGMT404   Project Management
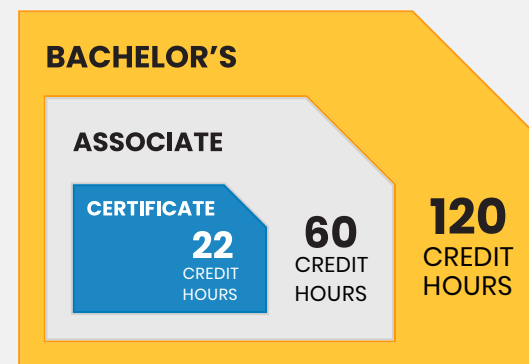TECH460   Senior Project

SPECIALIZED

11–13 CREDIT HOURS

Students who have not chosen an area of specialization may begin the program in "Undecided" status; however, they must select a specialization by the time they have earned 60 semester credit hours toward their degree.

Available specializations are:
- Big Data and Analytics
- Software Design and Programming
- Web and Mobile Application Development

Demonstrate Skills at Every Step

BACHELOR'S

ASSOCIATE

CERTIFICATE **22** CREDIT HOURS

60 CREDIT HOURS

120 CREDIT HOURS

EMBEDDED PROGRAMS

Acquire an additional two credentials with our unique 3-in-1 design. Courses in our Programming Essentials certificate and Information Technology and Networking associate degree are inserted within our online Software Development degree program. So you can earn a certificate and an associate degree on the way to your bachelor's degree.

DeVry University